

### REMARKS

The above amendments to the above-captioned application along with the following remarks are being submitted as a full and complete response to the Office Action dated March 30, 2009. In view of the above amendments and the following remarks, the Examiner is respectfully requested to give due reconsideration to this application, to indicate the allowability of the claims, and to pass this case to issue.

#### Status of the Claims

Claims 4, 8 and 20-25 are under consideration in this application. Claims 4, 8, 21 and 23 are being amended, as set forth in the above marked-up presentation of the claim amendments, in order to correct formal errors and/or to more particularly define and distinctly claim the Applicants' invention.

All the amendments to the claims are supported throughout the disclosure of the present invention. Applicants hereby submit that no new matter or new issue is being introduced into the application through the submission of this response.

#### Formality Rejection

The Examiner rejected claims 8 and 24 under 35 U.S.C. §112, second paragraph, as being indefinite. As outlined above, claims 8 and 24 are being amended to more particularly define and distinctly claim Applicants' invention, and in accordance with the Examiner's requirements.

#### Prior Art Rejections

The Examiner rejected claims 4, 20-21, 23 and 25 under 35 U.S.C. §103(a) as being unpatentable over Norcott et al. (U.S. Patent No. 6,775,518) in view of Morton et al. (U.S. Publication No. 2005/216443). This rejection has been carefully considered, but is most respectfully traversed.

The present invention as now recited in claim 4 is directed to an information management server to be connected to the student terminal for distributing lecture course contents to a student terminal, comprising: an accumulator section to accumulate electronic data on the lecture contents; a holding section to hold lecture-related information including plural problems relating

to the lecture contents; a send section to send the lecture contents and the lecture-related information to the student terminal; an analyzer section to analyze the lecture-related information and electronic data on the lecture contents; a matcher section to link the lecture-related information with the lecture contents based on the analysis results; and a control section for selecting lecture contents linked to the lecture related information based on a reply to the lecture-related contents sent from the student terminal, wherein the send section sends the lecture-related information to the student terminal, wherein the analyzer section is configured to extract text information from the lecture information, extract text information from video information contained in the lecture contents, and extract text information from audio information contained in the lecture contents, wherein the matcher section links the video information with the lecture-related information based on results from comparing with the extracted text information, wherein the analyzer section is configured to add time information relating to lecture contents to the extracted text information per sentence, wherein the matcher section is configured to extract words from the extracted text information, extract time information on word locations where specified words frequently appear in the extracted text information, extract the video information corresponding to the specified words in each sentence with the time information, extract the audio information corresponding to the specified words in each sentence with the time information, and store the extracted time information, the extracted video information and the extracted audio information in a relationship collating to each other on a time axis in time-spans during each of which the specified words frequently appear in the extracted text information, wherein the control section is configured to select supplemental learning contents to be sent among lecture contents linked with each of the problems included in the lecture related information based on true-false judgment results of replies to each of the problems included in the lecture related information sent from the student terminal, and wherein the send section is configured to send the selected supplemental learning contents to the student terminal which sends the replies to each of the problems.

As recited in claim 21, the present invention is directed to an information management server to be connected to the student terminal for distributing lecture course contents to a student terminal, comprising: an accumulator section to accumulate electronic data on the lecture contents; a holding section to hold lecture-related information including plural problems relating to the lecture contents; a send section to send the lecture contents and the lecture-related

information to the student terminal; an analyzer section to analyze the lecture-related information and electronic data on the lecture contents; a matcher section to link the lecture-related information with the lecture contents based on the analysis results; and a control section for selecting lecture contents linked to the lecture related information based on a reply to the lecture-related contents sent from the student terminal, wherein the send section is configured to send the lecture-related information to the student terminals, wherein the analyzer section is configured to extract text information from the lecture-related information, extract text information from video information contained in the lecture contents, and extract text information from audio information contained in the lecture contents, wherein the matcher section links the video information with the lecture-related information based on results from comparing with the extracted text information, wherein the analyzer is configured to add time information relating to lecture contents to the extracted text information per sentence, wherein the matcher section is configured to extract words from the extracted text information, extract time information on word locations where specified words frequently appear in the extracted text information, extract the video information corresponding to the specified words in each sentence with the time information, and extract the audio information corresponding to the specified words in each sentence with the time information, wherein the control section selects lecture contents to be sent among lecture contents linked with each of the problems included in the lecture-related information based on true-false judgment results of replies to each of the problems included in the lecture-related information sent from the student terminal, and wherein the control section is configured to extract sections of video frame data contained in the selected lecture contents and within time-spans during each of which the specified words frequently appear in the extracted text information, and create supplemental learning contents based upon the sections of video frame data to send to the student terminal.

As recited in claim 23, the present invention is directed to an information management server to be connected to the student terminal for distributing lecture course contents to a student terminal, comprising: an accumulator section to accumulate electronic data on the lecture contents; a holding section to hold lecture-related information including plural problems relating to the lecture contents; a send section to send the lecture contents and the lecture-related information to the student terminal; an analyzer section to analyze the lecture-related information and electronic data on the lecture contents; a matcher section to link the lecture-related

information with the lecture contents based on the analysis results; and a control section for selecting lecture contents linked to the lecture related information based on a reply to the lecture-related contents sent from the student terminal, wherein the analyzer section is configured to extract text information from the lecture-related information, extract text information from video information contained in the lecture contents, and extract text information from audio information contained in the lecture contents, wherein the matcher section is configured to link the video information with the lecture-related information based on results from comparing with the extracted text information, wherein the analyzer section is configured to add time information relating to lecture contents to the extracted text information per sentence, wherein the matcher section is configured to extract words from the extracted text information, extract time information on word locations where specified words frequently appear in the extracted text information, extract the video information corresponding to the specified words in each sentence with the time information, extract the audio information corresponding to the specified words in each sentence with the time information, and store the extracted time information, the extracted video information and the extracted audio information in a relationship collating to each other on a time axis in time-spans during each of which the specified words frequently appear in the extracted text information, wherein the control section is configured to select supplemental learning contents to be sent among lecture contents linked with each of the problems included in the practice problems based on true-false judgment results of replies to each of the in the practice problems sent from the student terminal, and wherein the control section is configured to extract sections of video frame data contained in the selected lecture contents and within time-spans during each of which the specified words frequently appear in the extracted text information, and create supplemental learning contents based upon the sections of video frame data to send to the student terminal.

Among the main features of the present invention, the invention is broadly directed to creating integrated data that includes the relation between word locations where specified words frequently appear in the extracted text information, the extracted video information and extracted audio information.

In contrast, the primary reference of Norcott merely discloses the basic configuration of an e-learning system, wherein and the next question in a test is selected according to an answer in a prior question. Norcott fails to show or suggest any combination of elements that embody

the combination of, using claim 4 as an example, an accumulator section to accumulate electronic data on the lecture contents; a holding section to hold lecture-related information including plural problems relating to the lecture contents; a send section to send the lecture contents and the lecture-related information to the student terminal; an analyzer section to analyze the lecture-related information and electronic data on the lecture contents; a matcher section to link the lecture-related information with the lecture contents based on the analysis results; and a control section for selecting lecture contents linked to the lecture related information based on a reply to the lecture-related contents sent from the student terminal, wherein the send section sends the lecture-related information to the student terminal, wherein the analyzer section is configured to extract text information from the lecture information, extract text information from video information contained in the lecture contents, and extract text information from audio information contained in the lecture contents, wherein the matcher section links the video information with the lecture-related information based on results from comparing with the extracted text information, wherein the analyzer section is configured to add time information relating to lecture contents to the extracted text information per sentence, wherein the matcher section is configured to extract words from the extracted text information, extract time information on word locations where specified words frequently appear in the extracted text information, extract the video information corresponding to the specified words in each sentence with the time information, extract the audio information corresponding to the specified words in each sentence with the time information, and store the extracted time information, the extracted video information and the extracted audio information in a relationship collating to each other on a time axis in time-spans during each of which the specified words frequently appear in the extracted text information, wherein the control section is configured to select supplemental learning contents to be sent among lecture contents linked with each of the problems included in the lecture related information based on true-false judgment results of replies to each of the problems included in the lecture related information sent from the student terminal, and wherein the send section is configured to send the selected supplemental learning contents to the student terminal which sends the replies to each of the problems, as in the present invention.

The secondary reference of Morton was relied upon by the Examiner to teach the extracting features of the present invention. However, as noted in prior responses, Morton only

discloses a system for extracting text data from video data, and providing a choice of time intervals which may be a link to short video data. Morton fails to provide any teaching or suggestion that makes up for the deficiencies in Norcott.

In particular, neither Norcott nor Motion provides any disclosure, teaching or suggestion to motivate one of skill in the art to combine their teachings in order to embody all the features of the claimed invention. Applicants will contend that the only motivation for the combination of these references is hindsight knowledge of the present invention as claimed. It is well established that a prior art rejection that uses knowledge of the subject invention as a guide to combine elements from the prior art is improper.

Even considering the standards set forth under the Supreme Court's KSR decision, Applicant will contend that the body of prior art teachings presented by the combination of Norcott and Morton fails to (a) yield predictable results even relevant to the present invention, (b) solve any problem even remotely similar to that addressed by the present invention, or (c) show much less suggest that the present invention embodies a combination that one of ordinary skill in the art would have found "obvious to try" in light of Norcott and Morton.

Further, in light of the combination of Norcott and Morton, Applicant will contend that there is no other evidence that could have been added that would have made the combination of Norcott and Morton more relevant to the present invention as claimed. In other words, given what would result from the combination of Norcott and Morton, one of skill in the art would still be unable to achieve the present invention even knowing, among other things, (1) the inventor's training or education in the relevant field; (2) whether the present invention had reasonable expectation of success; (3) whether the invention was a predictable result; (4) whether the invention could have been achieved by mere routine research methodology; (5) any prior art outside of the field of the invention that allegedly solved the same problem as the invention; (6) any general technical principles and concepts found in textbooks, trade literature and other sources that would have been available to one of skill in the art; or (7) any secondary considerations under Graham.

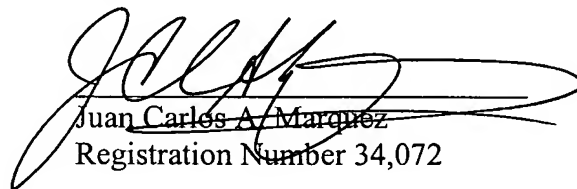
As such, the present invention as now claimed is distinguishable and thereby allowable over the rejections raised in the Office Action. The withdrawal of the outstanding prior art rejections is in order, and is thus respectfully solicited.

### Conclusion

In view of all the above, clear and distinct differences as discussed exist between the present invention as now claimed and the prior art reference upon which the rejections in the Office Action rely, Applicants respectfully contend that the prior art references cannot anticipate the present invention or render the present invention obvious. Rather, the present invention as a whole is distinguishable, and thereby allowable over the prior art.

Favorable reconsideration of this application is respectfully solicited. Should there be any outstanding issues requiring discussion that would further the prosecution and allowance of the above-captioned application, the Examiner is invited to contact the Applicants' undersigned representative at the address and telephone number indicated below.

Respectfully submitted,



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**October 8, 2009**

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